SEQUENCE LISTING

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(1)   GENERAL INFORMATION

(i) APPLICANT: van der Bruggen et al.

10 (ii) TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE ENCODING
PEPTIDES WHICH FORM COMPLEXES WITH MHC
MOLECULE HLA-Cw*1601 AND USES THEREOF

(iii)   NUMBER OF SEQUENCES: 9

(iv) CORRESPONDENCE ADDRESS:
15   (A) ADDRESSEE: Felfe & Lynch
           (B) STREET: 805 Third Avenue
           (C) CITY: New York
           (D) STATE: New York
           (E) COUNTRY: USA
20   (F) ZIP: 10022

(v) COMPUTER READABLE FORM:
           (A) MEDIUM TYPE: 3:5 inch 1.44 Mb storage diskette
           (B) COMPUTER: IBM PS/2
           (C) OPERATING SYSTEM: PC-DOS
25   (D) SOFTWARE: Wordperfect

(vi) CURRENT APPLICATION DATA:
           (A) APPLICATION NUMBER: Not Yet Assigned
           (B) FILING DATE: Herewith
           (C) CLASSIFICATION: 435

30 (vii) PRIOR APPLICATION DATA:
           (A) APPLICATION NUMBER: 08/196,630
           (B) FILING DATE: February 15, 1994

(vii) PRIOR APPLICATION DATA:
           (A) APPLICATION NUMBER: 08/079,110
35   (B) FILING DATE: June 17, 1993

(viii) ATTORNEY/AGENT INFORMATION:
           (A) NAME: Pasqualini, Patricia A.
           (B) REGISTRATION NUMBER: 34,894
           (C) REFERENCE/DOCKET NUMBER: LUD 5310.2

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5 (ix) TELECOMMUNICATION INFORMATION:
    (A) TELEPHONE: (212) 688-9200
    (B) TELEFAX: (212) 838-3884

(2) INFORMATION FOR SEQ ID NO: 1:

 (i) SEQUENCE CHARACTERISTICS:
10 (A) LENGTH: 1004
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: single
   (D) TOPOLOGY: linear

 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:


```
15 CGCCAATTTA GGGTCTCCGG TATCTCCCGC TGAGCTGCTC TGTTCCCGGC TTAGAGGACC      60

   AGGAGAAGGG GGAGCTGGAG GCTGGAGCCT GTAACACCGT GGCTCGTCTC ACTCTGGATG     120

   GTGGTGGCAA CAGAGATGGC AGCGCAGCTG GAGTGTTAGG AGGGCGGCCT GAGCGGTAGG     180

   AGTGGGGCTG GAGCAGTAAG ATG GCG GCC AGA GCG GTT TTT CTG GCA TTG TCT     233
                        Met Ala Ala Arg Ala Val Phe Leu Ala Leu Ser
                                      5                   10
20
   GCC CAG CTG CTC CAA GCC AGG CTG ATG AAG GAG GAG TCC CCT GTG GTG     281
   Ala Gln Leu Leu Gln Ala Arg Leu Met Lys Glu Glu Ser Pro Val Val
             15                  20                  25

   AGC TGG AGG TTG GAG CCT GAA GAC GGC ACA GCT CTG TGC TTC ATC TTC     329
25 Ser Trp Arg Leu Glu Pro Glu Asp Gly Thr Ala Leu Cys Phe Ile Phe
         30                  35                  40

   TGAGGTTGTG GCAGCCACGG TGATGGAGAC GGCAGCTCAA CAGGAGCAAT AGGAGGAGAT     389

   GGAGTTTCAC TGTGTCAGCC AGGATGGTCT CGATCTCCTG ACCTCGTGAT CCGCCCGCCT     449

   TGGCCTTCCA AAGTGCCGAG ATTACAGCGA TGTGCATTTT GTAAGCACTT GGAGCCACT     509

30 ATCAAATGCT GTGAAGAGAA ATGTACCCAG ATGTATCATT ATCCTTGTGC TGCAGGAGCC     569

   GGCTCCTTTC AGGATTTCAG TCACATCTTC CTGCTTTGTC CAGAACACAT TGACCAAGCT     629

   CCTGAAAGAT GTAAGTTTAC TACGCATAGA CTTTTAAACT TCAACCAATG TATTTACTGA     689

   AAATAACAAA TGTTGTAAAT TCCCTGAGTG TTATTCTACT TGTATTAAAA GGTAATAATA     749

   CATAATCATT AAAATCTGAG GGATCATTGC CAGAGATTGT TGGGGAGGGA AATGTTATCA     809
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5ACGGTTTCAT TGAAATTAAA TCCAAAAAGT TATTTCCTCA GAAAAATCAA ATAAAGTTTG      869

CATGTTTTTT ATTCTTAAAA CATTTTAAAA ACCACTGTAG AATGATGTAA ATAGGGACTG       929

TGCAGTATTT CTGACATATA CTATAAAATT ATTAAAAAGT CAATCAGTAT TCAACATCTT       989

TTACACTAAA AAGCC                                                       1004
```

(3)   INFORMATION FOR SEQ ID NO: 2:

10 (i)   SEQUENCE CHARACTERISTICS:
            (A)   LENGTH: 43
            (B)   TYPE: amino acid
            (C)   STRANDEDNESS: single
            (D)   TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Met Ala Ala Arg Ala Val Phe Leu Ala Leu Ser Ala Gln Leu Leu Gln
                 5   10   15

Ala Arg Leu Met Lys Glu Glu Ser Pro Val Val Ser Trp Arg Leu Glu
                20   25   30

Pro Glu Asp Gly Thr Ala Leu Cys Phe Ile Phe
                35   40

(4)   INFORMATION FOR SEQ ID NO: 3:

    (i)   SEQUENCE CHARACTERISTICS:
            (A)   LENGTH: 9
25   (B)   TYPE: amino acid
            (C)   STRANDEDNESS: single
            (D)   TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

    Ala Ala Arg Ala Val Phe Leu Ala Leu
30   5

(5)   INFORMATION FOR SEQ ID NO: 4:

    (i)   SEQUENCE CHARACTERISTICS:
            (A)   LENGTH: 9
```

5
     (B)      TYPE: amino acid
     (C)      STRANDEDNESS: single
     (D)      TOPOLOGY: linear


  (xi) SEQUENCE DESCRIPTION:   SEQ ID NO: 4:

Ala Arg Ala Val Phe Leu Ala Leu Phe
10                5


(6)    INFORMATION FOR SEQ ID NO: 5


  (i)   SEQUENCE CHARACTERISTICS:
     (A)      LENGTH: 9
15     (B)      TYPE: amino acid
     (C)      STRANDEDNESS: single
     (D)      TOPOLOGY: linear


 (xi) SEQUENCE DESCRIPTION:   SEQ ID NO: 5:

Met Ala Ala Arg Ala Val Phe Leu Ala
20              5


(7)    INFORMATION FOR SEQ ID NO: 6:


(i)  SEQUENCE CHARACTERISTICS:
     (A)      LENGTH: 18
     (B)      TYPE:  nucleic acid
25     (C)      STRANDEDNESS: single
     (D)      TOPOLOGY: linear


  (xi) SEQUENCE DESCRIPTION:   SEQ ID NO: 6:

TGGCTCGTCT CACTCTGG                18


(8)    INFORMATION FOR SEQ ID NO: 7:


30 (i)  SEQUENCE CHARACTERISTICS:
     (A)      LENGTH: 19
     (B)      TYPE:  nucleic acid
     (C)      STRANDEDNESS: single
     (D)      TOPOLOGY: linear

5  (xi) SEQUENCE DESCRIPTION:    SEQ ID NO: 7:

CCTCCTATTG CTCCTGTTG                                                    19

(9)    <u>INFORMATION FOR SEQ ID NO: 8:</u>

(i)    SEQUENCE CHARACTERISTICS:
       (A)    LENGTH: 19
10     (B)    TYPE: nucleic acid
       (C)    STRANDEDNESS: single
       (D)    TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION:    SEQ ID NO: 8:

GGCATCGTGA TGGACTCCG                                                    19

15 (10)   <u>INFORMATION FOR SEQ ID NO: 9:</u>

(i)    SEQUENCE CHARACTERISTICS:
       (A)    LENGTH: 19
       (B)    TYPE: nucleic acid
       (C)    STRANDEDNESS: single
20     (D)    TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION:    SEQ ID NO: 9:

GCTGGAAGGT GGACAGCGA                                                    19